

Moonlight Sail Ends Activity Of 5:15 Club

Tickets For Annual Cruise
To Be On Sale At Noon
During Exam Week

JACKIE FORD TO PLAY

To help celebrate the end of the year's work, Jackie Ford's orchestra will play for the annual Moonlight Sail sponsored by the 5:15 Club. Starting at nine from Rowes Wharf on Wednesday, May 31, the S.S. Town of Hull will cruise down the harbor and about Massachusetts Bay.

The entire boat has been reserved for the Institute group: about two hundred Technology men and their dates will spend the evening on the ship.

Sales Continue This Week

Ticket sales will continue at noon in the Main Lobby this week and in the 5:15 Club during noontimes in exam week. Harold V. Wallace, '40, chairman of the dance committee, announced last night. In addition, tickets will be on sale at the boat: the price is two dollars per couple.

The course for the boat has been set down the South Shore to Nantasket and then north across the bay to Nahant and thence back into Boston Harbor. The boat will dock at one o'clock.

Dancing on Board

There will be two dance floors available on the boat, the committee

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5:15 Sail

Coaching Launch Believed Stolen

The Wolf, Ind., Varsity Crew Boat, Found Stranded Up Charles River

The Varsity Crew coaching launch, Wolf, Ind., was found high and dry, eight inches of her waterline out of the water, near the Western Avenue Bridge late yesterday morning.

It is believed that the launch was stolen either Sunday night or early Monday morning, since the boat could not have drifted so far up the river in such a short time if it had broken its moorings.

A reward of \$10 has been offered for information leading to the arrest or conviction of the guilty person or persons.

Rain Washes Out Cadet Review In Honor of Retiring Sergeant

There was just a touch of defeatism hovering over the large group in Room 1-390 yesterday afternoon about 4 o'clock.

During their last drill of the year which was scheduled for that time the cadets of the R.O.T.C. were to parade in honor of Technical Sergeant John B. Fitzgerald, attending his last formation before his retirement from active duty in the United States Army.

Any hopes of having a sentimental farewell-review, however, were washed out completely with the heavy rainfall which lasted all day yesterday. Instead the group gathered inside to bid a final good-bye to the jovial sergeant.

Gives Farewell Speech

Modest as ever, the retiring officer delivered a brief message of thanks and farewell to the assembled cadets.

1939-40 Inst. Comm.

Following are the men who are the members of the Institute Committee for 1939-40:

Walter H. Farrell, '40, Class of '40
Joseph J. Casey, '40, Class of '40
Thomas E. Creamer, '40, M.I.T.A.A.
Charles V. F. DeMailly, '40, Voo Doo
Valentine V. de Olloqui, '40, W.M.C.
Lester W. Gott, '41, Class of '41
William H. Hagenbuch, '41, T.C.A.
Frederic W. Hammesfahr, '40, C.P.S.
Herbert J. Hollomon, '40, I.F.C.
William S. Kather, '40, The Tech
Wylie C. Kirkpatrick, '40, 5:15
Carl L. McGinnis, '42, Class of '42
Willard S. Mott, '41, Class of '41
John B. Murdock, '41, Class of '41
George E. Pollak, '40, Nautical Assn.
Henry Rapoport, '40, Dormitory Committee
Donald W. Ross, '40, Technique
James S. Rumsey, '40, Student Faculty Committee
Franklin P. Seeley, '42, Class of '42
Robert S. Shaw, '42, Class of '42
Dixon R. Speas, '40, T.E.N.
William R. Stern, Musical Clubs
John B. Titherington, '40, Budget Committee
Paul W. Witherell, '40, Elections Committee
Garrett H. Wright, '40, Class of '40

Keyes Speaks For Sigma Xi

Talk on Low Temperatures Is Illustrated By Experiments

Explanations of some of the more recent advances in the inspection of the properties of matter at extremely low temperatures was made last evening by Professor Frederick G. Keyes, head of the department of Chemistry at the Institute, during the annual Sigma Xi Lecture in Room 10-250.

By means of simple experiments wherein he dipped various objects into liquid nitrogen at a temperature of more than 400 degrees below zero, Fahrenheit, Professor Keyes showed how matter takes on curious characteristics in the realm near absolute zero.

Rubber Nails

Rubber balls become as brittle as glass, rubber nails become rigid enough to be driven into wood, lead becomes so resilient that it may be used as a spring metal, steel becomes brittle, copper takes on the strength of steel, and copper and other metals nearly lose their electrical resistance, at these low temperatures.

Professor Keyes also explained the

(Continued on Page 6)

Sigma Xi

Served in France

Fifteen years before his appointment to the Institute's staff in 1923, he enlisted in the United States Army and has been active in its work ever since. He has seen most of his service in the Coast Artillery units, and upon entry of this country into the World War, he went to France with Battery "I" 8th Coast Artillery, Railway, and Battery "E" 52nd Coast Artillery, Railway.

Complementing the pictures, are explanatory paragraphs written in Life style.

Dr. Vannevar Bush Is To Deliver The Baccalaureate; Charles Edison, Louis Johnson To Address Alumni

Defense Discussion Is Alumni Day Highlight

Full Schedule Of Events Is Planned For Alumni On June 5

A conference on "The Technology of National Defense", in which Charles Edison, 13, the Assistant Secretary of the Navy, and Louis A. Johnson, the Assistant Secretary of War, will discuss the technical organization of the country's machinery of defense, is to be the outstanding feature of the Alumni Day Reunion at the Institute on Monday, June 5.

In announcing plans for the reunion, A. Warren Norton, '21, of New York, chairman of the general reunion staff, stated that Gerard Swope, '35, president of the General Electric Company, will preside at this national conference on the scientific and engineering aspects of preparedness. Mr. Swope, a member of Technology's corporation, will introduce the subject in the opening address of the conference. Mr. Johnson will discuss "Some Fundamentals of National Defense", while Mr. Edison has chosen "The Navy and Industry" as the subject of his address.

Military Equipment on Display

Supplementing the conference will be a great exhibition of military, naval and air force equipment, with a complete anti-aircraft unit, including the latest type gun and airplane detection apparatus. There will also be various other types of guns, as well as high-speed tanks, military vehicles and other implements of defense. The conference is expected to show the relationship between the nation's defense forces and industry should the need for defense ever arise.

After the conference, which will begin in the morning, Technology's alumni, of whom more than 1,000 are expected for the reunion, will gather in du Pont Court at 1 o'clock for an open-air luncheon. At 2 o'clock they will go to exercises of the Class of 1939 in Lowell Court. Participating in

(Continued on Page 5)

Alumni Day

Voodoo Presents New Photo Issue

Voo Doo, the Institute's humor magazine, yesterday appeared on the sales-stands as a news-picture monthly. The only straight humor article was one on "Diminishing Returns."

This article was a take off on the textbooks of the Economics department, and was written by Lawrence A. Benenson, '40.

The story contains graphs, such as one of price or value plotted against price or good. This particular curve is influenced by such factors as "fumble" and "constant drivel."

The remainder of the issue contains stories in pictures on such subjects as Beaver Key initiations, anti-aircraft batteries, track Dramashop's production, "The Dictator," swing, fraternity dances, Dean William Emerson, the wrecking of the old Rogers Building, and Agenda initiates.

Complementing the pictures, are explanatory paragraphs written in Life style.

Baccalaureate Speaker



Dr. Vannevar Bush

Senior Graduation To Be Carried By WAAB

Baccalaureate Services Are To Be Held In Walker

Former Dean Vannevar Bush will deliver the Baccalaureate address, and Sir Harold Hartley is to speak at Commencement.—Page 1

Alumni Day talks will be made by Assistant Secretary of the Navy, Charles Edison, '13, and Louis A. Johnson, Assistant Secretary of War.—Page 1

Senior Week preparations are almost completed. Many festivities are now being planned.—Page 5

Classes of 1889 and 1914 will hold reunions starting June 3.—Page 5

Lowell Institute graduation exercises are to be conducted tomorrow night in Walker.—Page 5

The sermon at the Baccalaureate services of the Senior Class, to take place in the Walker Memorial Building on Sunday, June 4, at 3 P.M., will be delivered by Dr. Vannevar Bush, president of the Carnegie Institution of Washington and former vice-president and Dean of Engineering of the Institute.

Part of the Graduation exercises, which will be held in the Boston Symphony Hall, is to be broadcast by station WAAB and the powerful short-wave station, WIXAL. On Tuesday morning from 11 A.M. until 11:15 A.M., station WAAB will carry the ceremonies. Beginning at 11 A.M., station WIXAL will broadcast the exercises.

Commencement Address by Hartley

Sir Harold Hartley, vice-president and director of research of the London, Midland and Scottish Railway, will deliver the commencement address at the graduation exercises on Tuesday, June 6. Invocation will be offered by the Reverend Cornelius P. Trowbridge, canon of the Church of St. Paul.

Students and members of the staff are invited to the baccalaureate service. Tickets may be obtained at the Information office. Officiating minister at the service will be the Reverend Frederick Kellogg, associate rector of Christ Church in Cambridge.

Hudson Has Charge of Exercises

Professor Ralph G. Hudson, of the Electrical Engineering department, chairman of the Committee on Commencement, is in charge of all details pertaining to the graduation exercises.

Sir Harold Hartley was educated at Oxford University and the University of Munich, and holds the honorary degree of Doctor of Science from Sheffield University.

Chairman of the British National Committee of the International Executive Council of the World Power Conference, Sir Harold is a veteran of the World War, having held the rank of brigadier general in the British expeditionary forces. He was decorated with the Military Cross.

Fellow of Royal Society

Sir Harold is also a member of many technical organizations, a Fellow of the Royal Society, and is

(Continued on Page 5)

Commencement

The Tech

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 MASSACHUSETTS INSTITUTE OF TECHNOLOGY
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CONGRATS'

From time to time, rather adverse criticism of VooDoo has been printed in these columns—with the intent to help.

Yesterday, however, an issue of Phos appeared in which we can really find very little to criticize. It is eminently readable, interesting, and amusing.

Phos has a new suit on, if the changes initiated in the present issue are to be permanent. It is no longer primarily a humor magazine, which is a beneficial change—not simply because VooDoo as a humor magazine was not very good, but because college humor magazines in general are a mistake.

It is difficult to write thirty-odd pages of pure, unadulterated humor, and make it stick. Even the commercial magazines rarely try that, and they have the wits of the country at their service. It is evident that VooDoo has abandoned such a hopeless task.

The substitute which they have arrived at is to be commended. There is an excellent balance between humor, news, and the merely interesting. The humor is better represented by an article on Economics than it is by the jokes, but it is still humor rather than drivel.

The issue bears a resemblance to the magazine, Life, but it is a well done resemblance, and does the resembler credit. The picture captions in particular are well and crisply phrased.

All in all, if Phos can maintain the pace which they have set for themselves by this change, VooDoo will be well worth not only reading, but saving. Congratulations!

TRANSITION

The life of the college flows by in a peculiar rhythm. It moves in a series of jerks—nine months in a smooth current, then an abrupt change into a different, a summer, current.

This is the time when that abrupt change occurs. The routine of classes, meals, study, and weekends is about to be broken; the disorganized, pleasantly haphazard routine of summer is on us. This succession of routines is a peculiar rhythm because in winter, when we so to speak are hibernating—and that is a term well chosen—we work with our minds; in summer when our blood is looser and our minds more free, we leave them idle.

Still, perhaps there is a reason. Perhaps during the summer we digest the mountain of facts we accumulate during the school year. There may be an unconscious process of assimilation going on within us during the long warm months of summer.

Summer is a time for consolidating oneself. We grow during the winter, and grow-up during the summer.

SCIENCE IN BRIEF

by ARTHUR M. YORK, '38

CONDENSED MATTER

Instead of trying to peer farther into the distance, observers at the McDonald Observatory, which was opened last month in Texas, trained their new telescope first on some of the cool, faint stars which are relatively close at hand. Although only about the size of the earth, these neighboring suns are so dense that a handful of their matter weighs hundreds of tons. Yet they are considered to be in a gaseous state. Astronomers explain the seeming paradox by suggesting that such "superheavy" matter is composed of closely packed atomic nuclei, stripped of their electrons.

A LUMINESCENCE

Amateur photographers who have had the occasion to employ scotch tape or even the ordinary adhesive tape under conditions of total darkness probably have been curious about a faint flash of luminescence which can often be observed when the tape is stripped from the roll or from a can or film. An experimenter at Princeton University, E. Newton Harvey, is conducting experiments on the phenomenon and, in a preliminary report in *Science*, suggests that the luminescence is an electrical discharge caused by the suddenly reduced electrical capacity of the two charged surfaces as they are separated.

LIVES AND WORKS

Sir William Bragg, president of the Royal Society in London, in a recent address suggested that it might be said of the greatest men of science that the world has gained more from their lives than from their discoveries. He meant that the typical scientist is admired for his unselfish and altruistic attitudes which are inherent in his approach to nature, but that scientists' accomplishments have frequently been buried because of a failure to see to it that those accomplishments are explained in terms popular enough to bring them to the attention of the world at large.

BETTER FILLETS

A new machine takes the manual labor out of the process of filleting fish. At the rate of fifty fish per minute, the machine strips off eight per cent more fish and handles it more carefully than the manual operators.

DEAR EDITOR—

The Tech assumes no responsibility for communications printed in this column, nor do they necessarily represent the editorial opinion of this paper. All communications must be signed by the writer, whose name will be withheld on request.

To the Editor:

May I use this means of thanking Mr. A. L. M. Dingee for his thoughtful letter which appeared in your issue of May 19? Not only was I impressed by the mathematical intricacies which he summoned to show me that the worries of Dr. Grimwade of Australia over a shortage of oxygen in our atmosphere are entirely unnecessary, but I was pleased both to find that my literary stunt is read and to be reminded, indirectly, that whenever I pass on theories of another, it will be assumed that I entertain those same ideas unless I definitely state otherwise.

Most sincerely,

Arthur M. York

Editor, The Tech:

So Quadrangle has ceased to be a pure honorary function! The motion has been brought before the Institute Committee and passed for dissolving the present freshman rules committee and having function in its place the Sophomore honorary society, Quadrangle. It is easy enough to object with the typical cry of the commuter of the past ten years, "POLITICS". There might be some reason for this attitude, for if we look into the matter, we might find that a society supposedly composed of the entire school, but in reality with absolutely no commuter representation this year and almost negligible dorm representation, is now given the power to impose freshman rules and the resulting punishments on all residential groups. The cry however is out of date, no longer effective, and by no means true. It is rather the offer of a bunch of men who, having been honored as Sophomores feel they ought to work to bring out a better display of class spirit in respect to freshman rules.

Objections were raised to the motion. One claimed that placing the control of freshman rules in the hands of the Sophomores would tend to prolong the field day fight over the entire term. Another declared that such a function in the hands of upperclassmen would tend to result in more respect for the rulings. Both of these objections hold a great deal of weight—however, they were not strong enough considering how the vote turned out.

At the same time it was wondered whether the Quadrangle club, in as much as it was almost entirely fraternity, could control the other residential groups. The answer which seemed to satisfy the Institute Committee was that the rules could be enforced only on the Institute grounds and therefore residential groups could not be considered as part of the issue. Of course no one could be expected to enforce rules outside the Institute grounds (fraternities excepted). The answer did not satisfy everybody; if it did this letter would not have been written.

The former rules committee did not succeed for two

reasons: they lacked the vigor needed (no fault of their own) and they lacked the personal contact with all residential groups. The Quadrangle Club has got the former, but not the latter qualification. No Sophomore can distinguish a freshman and compel him to comply with the rules unless that Sophomore or upperclassman knows the freshman by sight. Now we are basing our whole letter on that one statement so perhaps its repetition will be excused. No effective rule enforcing can be carried out by any group whose members are entirely unknown to the freshmen involved. Rule enforcing is carried out very effectively at the present time in the Fraternities and in the Dormitories because the freshmen are spotted by men who know them. The letdown is in the commuter group which composes nearly 50% of each class. The freshmen in this group are unknown to the rule enforcing committee and vice versa. An expected lack of respect and compliance has been the result under the old system. And now the new system contains the same discrepancy, lack of means of contacting the commuter freshmen who really are the only ones who disobey freshmen rules and go unpunished (to put it harshly).

The Institute is, sadly enough broken up into three distinct undergraduate groups. I do not think it can be denied that each man tends to make the most friends and knows the most upperclassmen in his group—eating together, lunch and possibly supper, roaming together, and attending separate residential social functions all add to this condition. It would be much more easy for the upperclassmen or even Sophomores of each group to see that the freshmen in their group whom they would meet at all the functions listed above, did comply with the rules. The Tech in its editorial recently suggested making up the rules committee from a group composed of members of Quadrangle, Agenda (dorm honorary society) and selected members of the 5:15 club. This, of course, implies that the Quadrangle Club is strictly fraternity, which is a false assumption, of course. The plan, feasible as it seemed, was rejected by the Institute Committee.

It is apparent, in view of the fact that the personal touch among the commuters is lacking, that something will have to be done to avoid slipping into the same rut. The answer is in fuller representation of all groups in Quadrangle in view of its cessation of its honorary capacity and its assumption of definite undergraduate functions.

It is claimed that there are not enough activity men among the commuters to insure a good choice for such a society. As much as we disagree with this thought let us grant the point. Let us state, however, that by the time nominations to the next Quadrangle are considered there will be enough activity freshmen in the Class of 1943 to dispel all fears. This is not a threat but can be considered as the solemn promise of a group of men in the class of 1941 to help promote Institute undergraduate activities in the midst of that altogether too neglected brownbaggerish group, the commuters.

Back to the original point of freshman rule enforcement it might be added that the same group would be glad to cooperate with the Quadrangle Club as far as the commuters

5:15 Sail

(Continued from Page 1)

has stated. The second deck and the main dance floor on the boat will both have the music sent over loud speakers to those aboard. Dancing will be held during the entire cruise. Chaperones for the dance will be Professor and Mrs. Leicester F. Hamilton. Professor and Mrs. Raymond D. Douglass, and Mr. and Mrs. Wallace M. Ross. Members of the committee, headed by Harold Wallace, include Joseph J. Casey, '40, Stanley P. Hurley, '40, Norman I. Shapira, '41, Ian McLeod, '40 and Irving Berman, '40.

go until that time when a more even distribution can be found in the enforcement committee.

We would appreciate comments complimentary or not.

Dean Pitre recognized this entire problem in his address to the Beaver Key Society on Wednesday May 17, in warning them that their biggest problem is to interest the commuter in the intramural sports program. The failure of commuter interest here is even more apparent than in the case of Quadrangle. There are not enough men on the Beaver Key who can go out and make them (the Commuters) participate. If these societies were purely honorary, there would, of course, be no complaint. Quadrangle and Beaver Key are functional organizations however, and if they are to perform that function correctly they must have the right setup to start with.

Respectfully yours,

STANLEY BACKER, 1941

To the Editor:

To the student body Technology is notorious as a producer of expert cheaters and spongers. The faculty concur. They see over three quarters of the students cheating in examinations. Because nearly all course grades are based on comparative quiz marks there is a premium on cheating.

There are two courses open. Direct action involves enforcing existing rules. They call for brutal expulsion of all students caught cheating on quizzes. The alternative is the honor system.

We prefer the honor system. It satisfies the student's need for self respect by placing responsibility for his conduct on his own shoulders. Some faculty members believe the honor system could not work here. It has succeeded in other schools.

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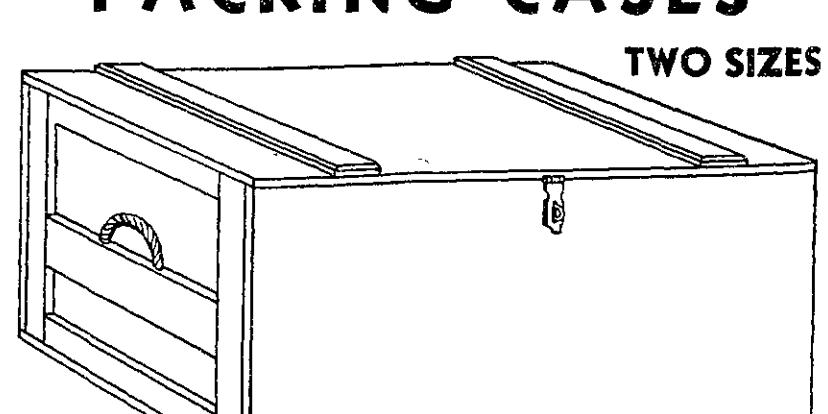
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SPORTS IN REVIEW

A partial review of Tech sports for the year shows the Institute teams to have won approximately 43% of the contests engaged in in 1938-39. Summaries:

	Won	Lost	Percentage
Basketball	6	4	.600
Rifle	13	4	.765
Gym	1	6	.143
Dinghy	7	1	.875
Swimming	2	7	.222
Track	2	1	.666
Tennis	4	3	.571
Lacrosse	1	6	.143
Golf	2	3	.400
Squash	4	3	.571
Soccer	2	6	.250
Hockey	3	11	.215
Wrestling	0	7	.000
Cross Country	2	2	.500
Fencing—no material available			
TOTAL	49	64	.430

Probably the outstanding achievements of the year were basketball record and the fine showing of the sailors. The basketball team won the acclaim of the Tech supporters with wins over Harvard and Tufts, who had two of the strongest teams in New England. The sailors continued their seemingly impossible record and, despite losing their first match in two years (under protest), regained the Intercollegiate Dinghy Championships.

TRACK ALSO BOASTS FINE RECORD

Following close to these two sports are the track men who won two of their three meets. The swimming team won their first two meets in five years, and the tennis team came out ahead in the win column for their fourth straight year.

RIFLE TEAM WINS HEARST TROPHY

Among the outstanding Tech teams also was the rifle squad, which not only boasted the fine record of fourteen wins in seventeen starts, but won the Hearst Rifle Trophy.

The soccer squad broke the all-Tech scoring record despite winning only two of their eight matches. This is one team that promises to be a standout next year.

FOUR OUT OF SEVEN FOR SQUASH

Although they have seen better years, the squash team won four of their seven matches.

Golf did a remarkable job, winning two of their five matches. The record was remarkable considering the adverse conditions for golf at Tech.

Lacrosse, which is a comparatively new sport at Tech, had a poor season as far as wins and losses go, but had a fine year in the interest shown in the sport.

CREW HEADS DISAPPOINTING LIST

Probably the most disappointing sport of the year was the exceptionally poor showing put up by the crews. With the strong material from last year's balanced freshman crew, a good year was expected, but was instead one of the worst in Tech history.

Cross country had a fair year, while the ski team made its first showing in Tech sports, and showed definite promise for the future.

GYM, FENCING PLACE IN INTERCOLLEGiate MEETS

The gym team made up for their showing during the year by walking off with the Eastern Intercollegiates.

Fencing made its bid for a high spot in Tech activities and placed seventh in the National Intercollegiates. The team broke approximately even during the year's matches.

To summarize, sports did make an advance at Tech. The improvement in the Tech teams in the past few years serves notice to all schools that Tech can no longer be disregarded in athletic competition.

Baseball Tourney Nears Completion

Phi Mu Deltas Capture Lead As Bemis Hall Trails A Close Second

With only a few games left to play, the fighting is becoming tougher and tougher for the lead position in the Beaver Key softball tournament. At present, the Phi Mu Deltas are leading with Bemis Hall close behind them.

The first game of the final round robin was taken by the Phi Mu Deltas playing Delta Upsilon by a score of 7-4. The struggle was close with plenty of questionable decisions involved.

Bemis Noses Out D.U.

Bemis Hall nosed out D.U. in the second game played Sunday morning by 7-5. This was a fast game crammed full with spectacular plays and critical moments for both sides.

Bemis led off in the first inning with three runs and at the same time kept D.U. scoreless. In the second inning, the dorm boys added another

run. D.U. rallied in the next, making the score 4-2.

Bemis Keeps Lead

From that point on, the playing was even with Bemis keeping a safe two to three run margin to the end.

Star performance was turned in by Morrie Gable, '40, who pitched for the dorm men. He allowed no walks and at two crucial moments, struck out the third out with men on bases, to beat down the D.U. scoring rallies.

Braunlich, Stone Star

Top playing was also exhibited by Dick Braunlich, '40, as left fielder, and Bill Stone, '40, who played second base.

A game between Walcott Hall and Phi Mu Delta has been played, but there is a possible infraction of rules involved, and therefore, the results are not yet definite.

D.U., Walcott Lose to Rain

The D.U.-Walcott game scheduled for Monday had to be called off because of rain.

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Vose Trophy Won By Coe Last Sunday

Kelbley Takes Nickerson Prize; Olsen Gets Smith Cup

DINGHY SEASON ENDS

Dinghy racing ended officially last Sunday with Jerome T. Coe, '42, winning the coveted Robert W. Vose Cup, the undergraduate award for the winner of the "A" division.

The consolation class with its prize, the William E. Nickerson Sailing Trophy, was won by Lawrence W. Kelbley, '41, while Eric Olsen walked away with the Jerome C. Smith Trophy, the award for the graduate division.

Covered Five Days

The Spring racing covered five formal racing days, and several qualifying races. It was necessary to sail three formal races to qualify for the official positions in any class.

Jerry Coe was well in the lead going into Sunday's racing, with Commodore Herman Hanson following in second place. Since Coe did not race on Sunday, the outcome of the series was dependent on Hanson's sailing.

Five Boats Entered

With five boats entered, it was just possible for Hanson to take the series and win the Vose cup if he won five straight races.

By the start of the racing one boat dropped out, and it was apparent that Coe would automatically be the winner. Nevertheless Hanson won all five races and finished second, .049 points behind Coe, reminiscent of the fall Vose Cup series when Coe was leading up till the last race when he dropped the series to Runyon Colle.

Olsen Sweeps Grad Class

Eric Olsen, who joined the graduate division this spring, was an easy winner of the Jerome C. Smith Sailing Trophy with the remarkable percentage of 95.6%.

Larry Kelbley swept to victory seven points ahead of Windy Gibson, his nearest competitor, as Tommy Crowley, the former leader, dropped to fifth place.

With such able skippers as Colle, Coe, Skippy Carleton, Ed Adams, Crowley, Kelbley, Tad Downer, Frank Seeley and Windy Gibson scheduled to return next year, the coming season bears excellent prospects for sailing competition.

Summary of the spring formal competition:

Vose Cup	Percent
Jerome T. Coe	78.709
Herman H. Hanson	78.66
Edgar W. Adams	60.5
John T. Carleton	53.7
James K. Tyson	53
Thomas Gonzalez	45.2
Charles A. MacArthur	44.7
William F. Watkins	40.8
Peter G. Park	38.8

Nonqualifiers	Percent
Runyan Colle	93.1
Delavan D. Downer	91.85
Franklin P. Seeley	84.7
John A. Beaujean	46.3
William E. Lifson	45

Nickerson Trophy	Percent
Lawrence W. Kelbley	77.6
Richard C. Gibson	70.6
Donald H. Kern	68.5
George W. Clark	67
Thomas T. Crowley	66.7
Robert W. Cady	66.9
Andrew H. Skinner	66
Walter F. Schuchard	62.7
Theodore Thomas	68.2
Walter Johnson	47.6
Hans W. Aschaffenber	45.5
Charles T. Goddard	38.9

Smith Trophy	Percent
Charles E. Olson	95.6
Peter G. R. Koloupeav	73.3
Richard M. Wimpess	73
Joseph T. Rivers	66
Henry Ayers	63.2
Ralph Sharpless	49.5

Football May Come To Institute Next Fall According To Rumors

If rumors that are rushing around Tech's gloomy halls bear any kernel of truth, we may have football here next fall. A special committee has made it their business to see if we can get a ball team here next fall.

Wray May Coach

At last the internal pressure is getting too great to hold its bonds and plans are well under way to have a Tech team on the gridiron in years to come. Lieutenant Wray of the Military Science department and All American Footballer from Army may be the coach in the event that plans for a Cardinal and Grey team go through.

Football in Past Unsuccessful

Up till the twentieth century Tech competed with the best of them, and football reigned supreme. Unfortunately we were never among the nation's leaders, and some such scores as 6-62 against Harvard ring sadly down the years.

We would never be able to compete with the "professional" talent that is so salient in sports circles, but at least we would have a good excuse to take our banners off the walls and shake the moths out of them once a year at "the big game".

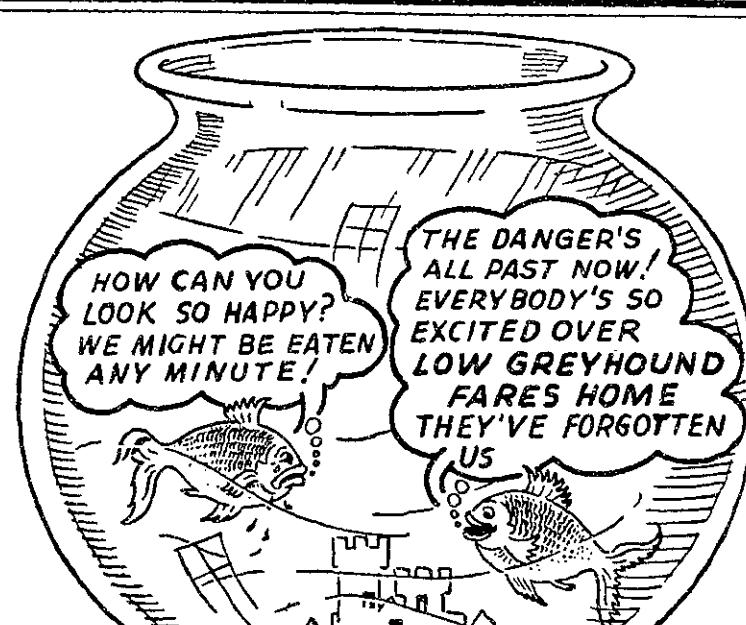
After all football is a sport and as a game ranks as one of the best both from the standpoint of the player and the bystander. Though we could never attain top flight competition we could at least play the game for the game's sake with that excellent spirit of sportsmanship that has characterized Tech teams in other fields.

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Kansas City	20.05
Richmond, Va.	9.95
New Orleans	19.05
New Haven	2.75
Seattle	43.45
Los Angeles	43.45
San Francisco	43.45
Washington, D.C.	7.70

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TRACK NOTES

NEW ENGLANDS

Ironically, Tech placed last in the scoring events and first in the non-scoring events in the NEIC3A track finals at the University of New Hampshire's woodland athletic plant Saturday. John Hamilton, '39, track captain, and Richmond Wilson, '40, accounted for M.I.T.'s 6/7ths of a point by placing in a seven way tie for third place in the high jump at 6 ft., while the freshman medley relay team of Robert McBride, Edward Edmunds, Andrew McKee, and Eugene Brady turned in a blazing 3:37.6 medley to capture the event. Brady starred with a 1:58.4 anchor leg of 880 yards, running even faster than he did in breaking the freshman 880 record at the Spring Inter-class Meet last Wednesday. M.I.T. also featured in the New Englands when Ken Clapp of Brown cut .2 seconds off the 220 yard low-hurdle record of 24s, set by H. G. Steinbrenner of Tech in 1927.

OSCAR

This is the story of a square-cut, middle-aged, and peppery individual named Oscar Hedlund, now a successful insurance broker who pieces out his leisure time by teaching Technology's students to make cinders and boards fly under their feet. And it is also the story of the man who lives and believes in the athletic policy that Tech is alleged to follow and of the man who beyond a doubt is the most widely known person on the campus.

Many persons think because Oscar has a name with a Scandinavian twist to it that he must be a foreigner but he was born an American at Woburn, Mass., on August 26, 1887. As a youngster he was a puny, under-developed

type—the last one on earth to be expected to smash world records—who went twice a week to the Children's Hospital to be checked over and advised on what sort of foods and what kinds of corrective exercises he should take. His family moved from Woburn to Brookline where he attended grammar and high schools, later going to Bryant and Stratton business school in Boston and entering the Columbia National Life Insurance Co. to learn the insurance business.

He was a spindly-shanked lad of nineteen with 118 pounds of lean muscle when a retired business man of sixty-odd years suggested that he take up track. Under the guidance of the old man, Oscar entered a Fourth of July half-mile handicap race on the Boston Common in 1906 dressed in plain summer underwear. Gratefully accepting the forty-two yard advantage that placed him out in front of the pack, he turned in a 1:59 victory, and went on to win the next eight races he entered. The prize he received for winning his first race was a spanking for running without permission.

Oscar next attracted attention on June 25, 1911 by establishing the present mile record of 4:21 for old Tech Field in Brookline and defeating Frank Sheehan, one of the country's greatest middle distance runners, in a 1:57.8 half-mile on the same afternoon. Shortly afterward he beat Abe Kiviat by 30 yards to win the classic Hunter Mile of the Boston A.A. Games, then held in Mechanics Building, in 4:23.8. The Boston A.A. managed to get him to represent them and Jack Ryder, now coach at Boston College, took him in hand. From then on success was assured. One month after joining the Unicorns, Oscar was a member of the two mile relay team which created a new world's indoor record of 6:59 and three months later on June 17, 1913 he anchored the Boston A.A. four mile team to a new world's outdoor record of 17:51.2 with a 4:22 performance on the Lafayette College track.

During all this time he was continuing his insurance work and practicing on the Irvington St. oval before supper. He traveled to Stockholm, Sweden with the 1912 Olympic team to compete in the 1500 meter run and came in sixth in a field consisting of Jackson, Englishman who set a new record, Taber of Brown, John Paul Jones of Cornell, and Abel Kiviat. During the winter of 1912 he ran through a handicapped field of forty-eight men at Troy, New York to smash the world's indoor mile record in 4:19.8, only to have the new mark disallowed because the track measured twelve yards more than the official distance. He did 4:18 in a practice mile at Harvard. He was New England mile champion for seven years and also held half and two-mile crowns.

His greatest individual performance was the fracturing of the world's indoor record while defeating Taber in a race at Madison Square Garden in 4:18.8. Probably no pair of runners in the history of athletics ran a more sensational series of races than did Hedlund and Kiviat. Their three year duel is track history.

Oscar's finale to competitive track was fully as spectacular as his entry. He resolved, just previous to retiring, that if he ran one more good race, he would hang up his shoes. The good race came in March, 1915, when he romped home at Mechanics Hall by a wide margin to fracture the New England two-mile record.

"After that race I went downstairs," he tells, "and took off my spikes. I've never engaged in competitive running since. That was the end of it."

The beginning of his coaching career at Tech came at the instigation of Dr. Allan Winter Rowe in the fall of 1923. Since then he has never missed a single day of coaching. Some of the greatest runners he has turned out include George Leness, 1:55 half-miler Hank Steinbrenner, star hurdler, Dick Bell, IC4A 70 yard champion in 1932, Morton Jenkins, NEIC3A one-mile champion for two years, and Henry Guerke, New England mile and two-mile champion. He married Elsie F. Hilliard of Boston on June 14th, 1915 and has one daughter, Louise. His hobby of collecting track records and figures of all sorts since 1908 has made him one of the foremost experts on track statistics today.

HIGH SCORERS

Lewis T. Jester, '41, earned high scoring honors for Technology in inter-collegiate meets this year with 24 points in consistent hurdle wins, while

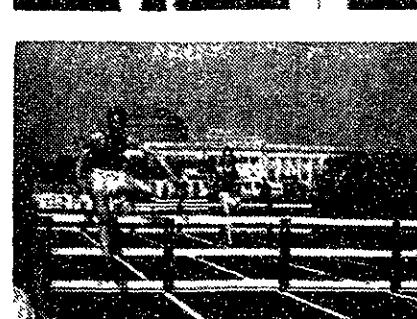
Undergraduate Notice

The Senior class pictures will be taken in the Great Court on Sunday, June 4, at 2:15 P.M., preceding the baccalaureate sermon by Dr. Vannevar Bush.

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Some 1939 Track High-lights



Upper left—Bill Wood, 3rd; Klie (B), 2nd; Bill Hailey; Schuetz (B), 1st, and Vernon Kyllonen in 440 at Brown. Upper right—Captain John Hamilton, '39, winner of Track Club award, and Captain-elect George Clark, '40, Inter-class dash winner. Lower left—Dan Crosby setting the track record in the mile with Wallace of Bates second. Lower right—Lewis Jester, 1939 high scorer, winning the Bates 220 low hurdles with Bill Taylor and Vernon Kyllonen 2nd and 3rd.

John J. Nagle, also '41, placed a close second with 21½ points for his field performances. Others in the first ten are Dan Crosby, '40, and William R. Taylor, '40, tied for third with 18 each; William E. Wood, '40, fifth with 17; George W. Clark, '40, sixth with 14; Howard D. Marshall, '39, seventh with 13; Rudolph W. Hensel, '41, eighth with 12; and John F. Gilbert, '40, and Parks R. Toolin, '39, tied for tenth with 11 apiece.

CROSS COUNTRY

Oscar is already preparing for next year's harrier season with the announcement that all men interested in coming out for cross country in the fall should appear at the first cross country rally Monday afternoon, May 29th, at 5 o'clock in the track house.

FRESHMEN

Although the class of 1942 did not turn in an undefeated season or even score the usual freshman triumphs in the interclass meets, it has furnished excellent material for the 1940 varsity. Leading the list is stellar Gene Brady, present holder of the freshman, Spring Interclass, and track 880 yard records, winner of both mile and half-mile interclass cups, first in freshman P.T. competition and holder of a number of other achievements. Also prominent are Art Gow who placed 13th in the IC4A freshman cross country run last fall and who has won the mile consistently for the freshman team this spring; Edmunds, Silva, and McKee in the dashes; Schultz in both hurdles; McBride in the dashes and 440; Eberhard in the pole vault; Ericson and Madwed in the weights; and Ford in the high and broad jumps.

MIT Skippers Win Quad Meet

Hanson And Coe Lead Field In Final Regatta Of Year

The Tech sailors brought their season to a successful close with a victory in the annual quadrangular against Brown, Harvard, and Dartmouth last Sunday morning. The M.I.T. Nautical Association saw its skippers, Commodore Hanson, Jerry Coe, and Ed Adams, pile up a total of 91 points to Harvard's 84, Brown's 69, and Dartmouth's 60.

The individual scoring was won by Commodore Herman H. Hanson who finished with 42 out of a possible 48 points. Jerry Coe placed second with 37 points, while Wilcox of Harvard totaled 33 points.

Hanson Won First

Hanson won the first race, while Wilcox of Harvard placed a close second. In the second race Rousmaniere of Harvard was first to cross the line, with Hanson taking second.

Not letting his teammates take all the laurels, Wallour of Harvard took first in the third race, while Coe placed a close second. The fourth and last race was easily won by Wood of Brown, who was partly responsible for the Technology defeat at Brown two weeks ago.

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True to the form showed by crews throughout the season Tech 150 lb. crews did little in the races held last Saturday on Charles.

Only the second 150's had any trailing them at the finish when finished ahead of Yale in their race.

The first hundred and fifty trailed all of the seven entries in the finish line in a race which was won by Harvard. This compares with turned in by the 150 crews from in this same regatta a few years ago. The Henley Regatta is considered a championship meet for the 150 crews.

The freshmen 150's did little better than the varsity boats. They took four other freshman crews to finish line.

Junior Varsity 150-Pound Crews
M.I.T.—Kilvans, stroke; Ivson, 7; Schwenzfeier, 5; Howard, 4; Mag Witnuski, 2; Orr, bow; Blake, cox.

Freshmen 150-Pound Crews
M.I.T.—McCord, stroke; Mitch Wagner, 6; Howell, 5; Alexander, Horton, 3; Twaddle, 2; Sommer, bow; Witz, coxswain.

M.I.T.—Vandervoort, stroke; Hort Smith, 6; James, 5; DeOlioqui, 4; V. Gerges, 2; Withington, bow; Coxswain.

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Tuesday, May 23, 1939

Page Five

Seniors' Plans Near Finish

Mock Trial Scheduled For Class Exercises On June 5

The numerous festivities of Senior Week are already making themselves evident about the Institute as the many plans and preparations are being speedily brought to a close.

Their effect has already been felt by the residents of Walcott Hall, which the Senior Week Committee has decided to use as a girls' dormitory for the guests of seniors during Senior Week.

The dormitory management has been concerned about the comfort with which the Walcott boys have been sleeping, and about the relative degree of softness of their mattresses. As the management said, "The beds have to be comfy for the girls. Seniors may reserve rooms for their guests in the dormitory office."

Schaefer to Speak at Banquet

The first of the many festive occasions will be the informal Senior Banquet to be held in the Renaissance Room of the Hotel Touraine in Boston at 7:00 P.M., Tuesday, June 2. The toastmaster of the evening will be Professor Albert A. Schaefer, of the department of Business and Engineering Administration, which is celebrating its twenty-fifth birthday on June 4th.

The steak dinner will be more on the style of a farewell get-together than a banquet. The many members of the faculty who have been invited will each give a brief talk.

Tech Night at the Pops

The M.I.T. Glee Club will entertain the Seniors at the annual Tech Night at the Boston Symphony Pops Concert, to take place this year on Saturday night, June 3rd, at 8:30 P.M. Mr. Henry J. Warren, the club's conductor, has announced that the program is to consist of "The Chorus of Soldiers" from The Damnation of Faust by Berlioz; "The Morning Hymn" by Henschel, who is first conductor of the Boston Symphony Orchestra; "Summer Evening" by Palmgren, in which the soloist will be F. Lewis Orrell, Jr., '39; Take Me Back To Tech; and the Stein Song.

Although tickets are still available at the Information Office to all undergraduates and faculty they are selling fast and not many are left.

Big Day June 5

The graduation of the Class of 1939 will take place in an informal style at the Class Day Exercises to take place at 2:00 P.M. on Monday, June 5th, in Lowell Court on the west side of Building 2. The program will be highlighted by the many presentations and awards, including the presentation of the Senior Class gift to Dr. Compton.

A mock examination held by the Alumni Association will determine whether the Class of '39 is to be accepted into the Association. Andrew P. Rebori, '39, will be the Beaver Orator.

Climax to Class Day will be the informal tea dance to take place in Walker Memorial from 4:00 to 6:00 of the same day. Leon Mayers and his band, well-known to Tech men, will play at the dance.

Senior Ball at Copley

By far the most important day to the Seniors will be June 6, Commencement Day, and the date of the Senior Ball. The many Seniors and their guests are to dance to the tunes of Frankie Trumbauer's orchestra. The Ball will take place in the State Suite and the Sheraton Room of the Copley Plaza Hotel, from 9:00 to 2:00. A supper will be served from 11:30 to 12:30 in the Main Dining Room, according to the committee.

Professor Arthur Hardy Gets Longstreth Award

Professor Arthur C. Hardy, of the department of Physics, was awarded one of the two Longstreth Medals by the Franklin Institute at its annual medal day exercises in Philadelphia.

This medal was one of sixteen awards given for research ingenuity and skill, invention, and discovery. Professor Hardy is professor of optics and photography at Technology, and is an internationally known expert on colorimetry.

Lowell Institute Graduates 175

A. Lawrence Lowell To Give Certificates Tomorrow In Walker

Graduation exercises of the Lowell Institute School, a night school conducted under the auspices of the Institute, will be held in Walker Memorial on Wednesday evening.

Royal Parkinson, a personnel manager of the American Optical Company, will deliver the commencement address this year. Dr. A. Lawrence Lowell, former president of Harvard University and sole trustee of the Lowell Institute School, will present the certificates of graduation. Other addresses will be given by Dr. Karl T. Compton, president of Technology, and Professor Charles F. Park, director of the school, who will preside.

Largest Class in History

Graduating the largest class in its history, the school will this year present graduation certificates to about 175 young men and certificates for the completion of supplementary courses to nearly 170 more.

For more than a third of a century the Lowell Institute School has offered free courses in mechanical, electrical, and building subjects. The courses now given in the evening school were developed to give an opportunity to skilled workmen to get an education in the application of science to their work.

Many Important Graduates

During its history the Lowell Institute School has attracted the leaders among the skilled workmen ambitious to educate themselves in their work. Among the graduates who have gone out from the school are many who now hold leading positions in various branches of industry and engineering.

Alumni Day

(Continued from Page 1)

this colorful ceremony will be President Karl T. Compton, Harold B. Richmond, '14, of Winchester, President of the Alumni Association; William F. Wingard, '39, of Baltimore, President of the senior class; Charles P. Fiske of New York, Assistant Secretary of the class of 1914, the Twenty-Five Year Class; and Franklin W. Hobbs of Boston, '89, President of the Fifty Year Class, both of whom will have places of honor in the Alumni Day program.

To Dedicate Field House

Features of the afternoon of Alumni Day will be dedication of the Briggs Field House on the Coop Field off Massachusetts Avenue. The new field house is to be named for the late Major Frank H. Briggs, of the class of 1881, who from 1898 to 1930 played an important part in the development of athletics at the Institute. Construction of the new field house was made possible from funds contributed by Technology alumni for further development of recreation facilities for students. Near it is the new quarter

(Continued on Page 6)

Alumni Day

Class Of 1914 Expect Over 100 At 25th Reunion

Fourteen Classes Of Alumni To Celebrate Graduation At Get-togethers

More than 100 members of the Class of 1914 are expected for their twenty-fifth reunion, which will open at the New Ocean House, Swampscott, on Saturday, June 3, with a program of events that will continue for two days. Arrangements were completed recently at a meeting of reunion committees under the direction of Mr. Harold B. Richmond, Secretary of the class.

Along with the Class of 1889 which is celebrating its fiftieth anniversary at Hotel Marblehead, Marblehead, Mass., on June 3 and 4, the Class of 1914 will share the place of honor when they join nearly 1,000 other alumni at the annual Alumni Day Celebration at the Institute.

Many Classes Celebrate

The classes of 1914 and 1889 are only two of the ten Technology classes which are staging reunions this year at various clubs and inns in Massachusetts and Connecticut, most of them within easy motoring distance of Cambridge. They all represent the "five-year" classes, or those graduated at five-year intervals dating back from the present graduating class as far as 1889.

Except for the class of 1904, which will hold its reunion on June 23, 24, and 25, at Boxwood Manor, Old Lyme, Conn., these reunions will be held during the several days prior to Alumni Day on June 5. Locations of the other gatherings will be as follows: Class of 1894, East Bay Lodge, Osterville, Mass.; 1899, Essex Country Club, Essex, Mass.; 1909, Oyster Harbor Club, Osterville, Mass.; 1919, vicinity of Boston; 1924, Corinthian Yacht Club, Marblehead, Mass.; 1929, Ye Castle Inn, Saybrook, Conn.; 1934 (place not yet decided).

Informal Reunions Scheduled

In addition to the regular reunions of the five-year classes, there will also be several informal reunions of scattered classes. The class of 1888 will hold the "Ninth Webster Class Dinner", at the home of Edwin S. Webster, '88, at 307 Hammond St., Chestnut Hill on June 4. Members of the class of 1905 will gather at Boxwood Manor, Old Lyme, Conn. Graduates of '15 will have a party at the Hotel Statler in Boston, and the class of 1935 will have a "get-together" at the University Club in Boston.

The New York members of the class of '14 will arrive before noon on June 3, under the leadership of Charles P. Fiske, vice-president of the General Motors Acceptance Corporation, who will also be in charge of the golf tournament, which will be held at the Tedesco Country Club. Local transportation of the class is in charge of C. A. Corney, chief electrical engineer of the Boston Edison Company, while Harry S. Wilkins, development engineer of the General Radio Company, is in charge of housing. The program of entertainment for ladies is in charge of Francis C. Atwood, vice-president of the Kraft-Phoenix Company, and Mrs. Atwood.

Prominent Alumni Coming

Among the prominent class of '14 members who are expected to return for the reunion are Donald W. Douglass, president of the Douglass Aircraft Company; Arthur C. Dorrance, president of the Campbell Soup Company; Captain Thomas B. Richey, U.S.N., in charge of ship construction at the Brooklyn Navy Yard and noted naval authority on capital ship launching; G. E. Whitwell, vice-president of the Philadelphia Electric Company; and Charles H. Chatfield, director of research of the United Aircraft Corporation.

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EVENTS — JUNE 2 to 6

FRIDAY, JUNE 2

7:00 P.M. Senior Banquet—Renaissance Room, Hotel Touraine.

SATURDAY, JUNE 3

8:30 P.M. Pops Concert—Symphony Hall.

SUNDAY, JUNE 4

11:00 A.M. Commemoration Services—Christ Church, Cambridge.

12:00 P.M. Luncheon—Hotel Continental.

2:15 P.M. Senior Class Picture—Great Court.

3:00 P.M. Baccalaureate Services—Walker Memorial.

COURSE XV REUNION

6:30 P.M. Convocation Dinner—Walker Memorial.

MONDAY, JUNE 5

SENIOR CLASS DAY — ALUMNI DAY

8:30 A.M. Alumni Registration—Rogers Bldg.

9:00 A.M. Course XV Breakfast—Walker Memorial.

10:00 A.M. Conference on Defence—10-250.

1:00 P.M. Alumni Luncheon—duPont Court.

2:00 P.M. Class Day Exercises—Lowell Court.

4:00 P.M. Tea Dance—Walker Memorial.

4:15 P.M. Briggs Field House Dedication—New Tech Field.

1:15 P.M. Opening of Dard Hunter Paper Museum Building—Building 7, 3rd Floor.

6:30 P.M. Alumni Dinner—Hotel Statler.

TUESDAY, JUNE 6

11:00 A.M. Commencement Services—Symphony Hall.

9:00 P.M. Senior Ball—Copley Plaza.

Commencement

(Continued from Page 1)

widely known as a writer and lecturer on scientific and engineering subjects.

Dr. Bush is renowned for his contributions toward scientific advancement, and because of his accomplishments was last year appointed to hold the highest administrative position on one of the world's largest research foundations, the Carnegie Institution.

Developed Differential Analyzer

Among his best achievements is the development of the now famous differential analyzer. For his work on mathematical computing machines at Technology, he was presented with an award of \$2,500 last February by the Technology Research Corporation.

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CALENDAR

TUESDAY, MAY 23

6:00 P.M. Track Club Dinner—Silver Room.

WEDNESDAY, MAY 24

6:30 P.M. Lowell Institute Dinner—Silver Room.
7:30 P.M. Lowell Institute Graduation—Main Hall.

FRIDAY, MAY 26

6:30 P.M. Rowing Assoc. Dinner—North Hall.
8:00 P.M. Lowell Graduation Dance—Main Hall.

MONDAY, MAY 29

5:00 P.M. Cross-country Rally—Track House.

WEDNESDAY, MAY 31

9:00 P.M. 5:15 Club Sail—Rowes Wharf.

Sigma Xi

(Continued from Page 1)

method by which the magnetic properties of "paramagnetic" substances are being used at the Institute to push nearer and nearer to the goal of absolute zero. Already temperatures have been reached which are low

enough so that electrical resistance is totally removed and an electrical surge can be made to flow on indefinitely in a closed circuit of mercury or of certain other metals.

The lecture, preceded by an introduction by Dr. Samuel C. Prescott, Dean of Science, is the annual feature of the meeting of Sigma Xi, honorary scientific fraternity, at which the new members are inducted.

Alumni Day

(Continued from Page 5)

mile track which has just been completed.

The twenty-fifth anniversary of the Institute's department of business and engineering administration, of which Professor Erwin H. Schell, '13, of Cambridge is head, will be celebrated during this year's reunion. Graduates of the department, many of whom hold leading places in industry and business, will participate in a series of conferences. The anniversary program will be opened with a service at Christ Church, Cambridge, on the morning of June 4, and will be followed by a luncheon at the Hotel Continental. A dinner for graduates of the department will be held that evening, with a special breakfast at Walker Memorial on Monday, June 5.

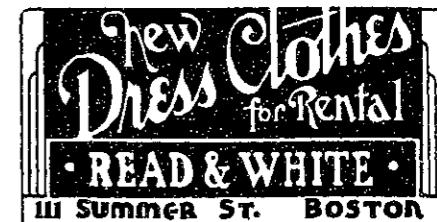
Paper Museum to Be Opened

An event of special interest to alumni will be the opening of the Dard

Hunter Paper Museum at the Institute, to which Mr. Dard Hunter, the world's recognized authority on handmade papers, has brought his great collection of rare papers dating from the first piece of printing, a Japanese ceremonial prayer scroll, up to the present. The museum will include numerous specimens of primitive paper-making equipment from all parts of the world and models of paper mills never seen outside of Japan, China and India. The process of making water marks, as well as specimens of the world's most famous water marks are included in Hunter's distinguished collection.

The annual Alumni dinner will be held in the evening in the grand ball room of the Hotel Statler, where a

special program, including an address on Technology by President Compton, will be given for nearly 1,000 alumni. Assisting Mr. Norton on the general reunion staff is Henry B. Kane, '24, of Harvard, Mass., vice-chairman, and the executive committee is composed of Dr. Jerome C. Hunsaker, '12, Commander Henry E. Rossell, '15, Ralph T. Jope, '28, and Colonel Charles Thomas-Stahle, '22.

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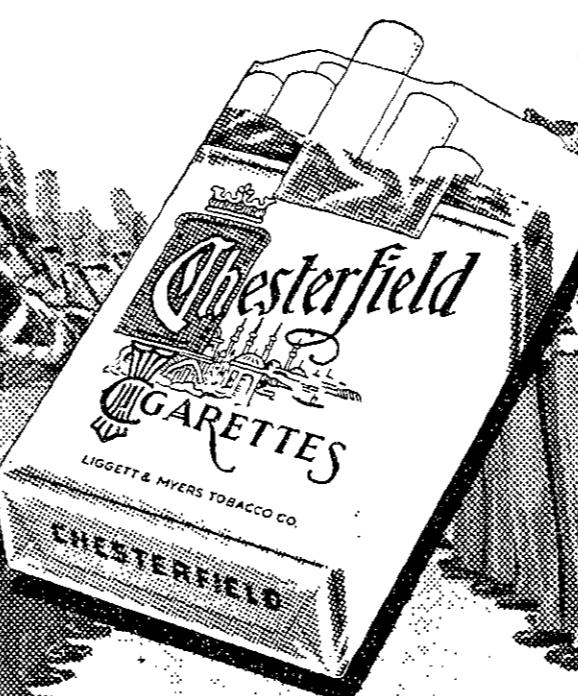


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